



AVOX Systems

Formerly Scott Aviation

SERVICE INFORMATION LETTER

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OXYGEN - ATA SYSTEM 35

P/N 283 SERIES – CONSTANT FLOW OXYGEN MASK ASSEMBLY

SERVICE LIFE, SHELF LIFE, AND CHECK PROCEDURES

1. BACKGROUND

This Service Information Letter (SIL) contains important information about service life, shelf life, and check procedures. It is important to obey the instructions in this SIL to make sure that all the P/N 283 Series Constant Flow Oxygen Mask Assemblies installed in your aircraft operate correctly.

You are authorized to make copies of this SIL and give them to other persons. If you copy this SIL, you must copy all of the SIL.

2. EFFECTIVITY

A. Aircraft

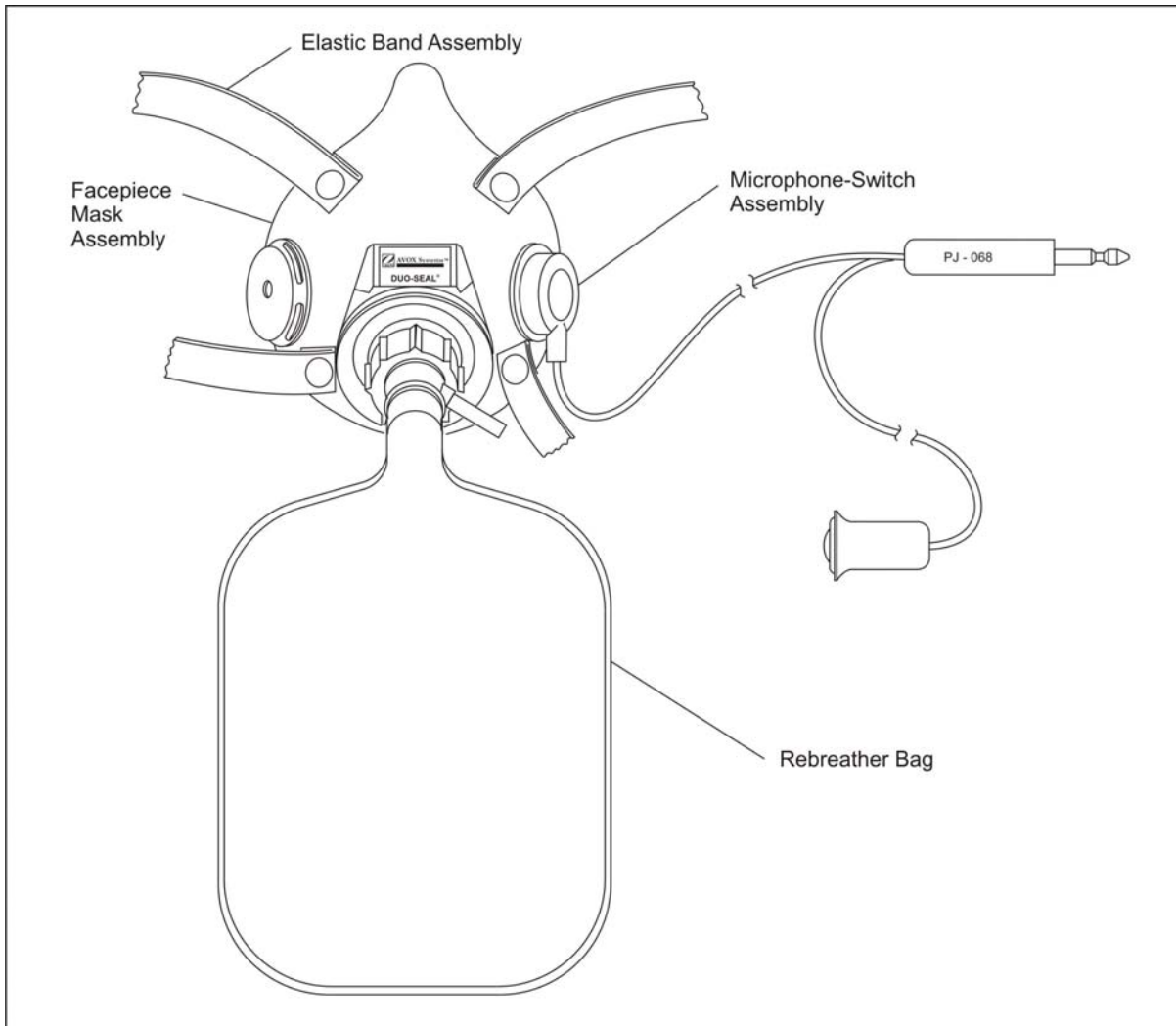
This SIL applies to all makes and models of aircraft that have any Scott Aviation/AVOX Systems P/N 283 Series Constant Flow Oxygen Mask Assemblies.

B. P/N 283 Series Constant Flow Oxygen Mask Assemblies (Mask Assemblies)

This SIL applies to all Scott Aviation/AVOX Systems Mask Assemblies listed in Table 1.

Table 1
End-Item Part Numbers of Affected Mask Assemblies

PART NUMBER	PART NUMBER
28301-00 thru -19	28318-11, -13, -16, -19
28301-0C, 0D, -1B thru -1D	28319-12, -19
28302-11	28320-00, -02, -09, -11, -12
28308-02	28320-16, -17, -19, -0A, -1A
28312-00 thru -19	28320
28313-11 thru -19, -0A, -1A	28321-00-10, -11, -1A
28314-00 thru -03, -10 thru -19	28322-00, -11, -16, -19, -1A
28314-0A, -1A, -1B	28323-00, -11, -19
28315-10, -11, -16, -1A	28324-16, -19
28316-10 thru -19	28325-12, -19
28317-10, -11 thru -16, -1A	28326-00, -04, -12, -14



Typical Mask Assembly
Figure 1

2. EFFECTIVITY (Continued)

B. Mask Assemblies (Continued)

A typical Mask Assembly is illustrated in Figure 1.

C. Component Maintenance Manual (CMM)

There is no CMM covering the Mask Assemblies listed in Table 1.

3. SPECIAL TOOLS AND EQUIPMENT

There are no special tools or equipment necessary for the inspection of the Mask Assembly.

4. CONSUMABLE MATERIALS

Not Applicable.



5. WARNINGS

WARNING: FAILURE TO FOLLOW THE PROCEDURES IN THIS SIL, INCLUDING BUT NOT LIMITED TO FAILURE TO READ AND HEED THE WARNINGS IN THIS SIL, OR ATTEMPTING TO PERFORM ANY PROCEDURES ON THE MASK ASSEMBLY UNLESS TRAINED IN THE PROPER USE AND MAINTENANCE OF AVIATION OXYGEN EQUIPMENT, MAY RESULT IN AN EXPLOSION, ILLNESS, SERIOUS PERSONAL INJURY, OR DEATH.

- A. Read and understand all the information in this SIL before performing any procedures on the Mask Assembly. Do not attempt to perform any of the procedures on the Mask Assembly unless you are trained and qualified in the proper use and maintenance of aviation oxygen equipment. Maintenance personnel must know how to avoid the hazards of maintaining aviation oxygen equipment and must comply with all applicable government regulations.

WARNING: CONTAMINATION OF OXYGEN EQUIPMENT BY FAILING TO HANDLE OXYGEN EQUIPMENT IN AN AREA CLEAN OF OIL, GREASE, FLAMMABLE SOLVENTS, OR OTHER COMBUSTIBLE MATERIALS INCLUDING DUST, LINT, AND FINE METAL PARTICLES; CONTAMINATION FROM FAILING TO USE CLEAN HANDS, GLOVES, TOOLS; OR CONTAMINATION BY ANY OTHER MEANS, WHEN HANDLING OXYGEN EQUIPMENT, MAY RESULT IN FIRE OR EXPLOSION THAT MAY CAUSE SERIOUS PERSONAL INJURY OR DEATH.

- B. If oxygen equipment becomes contaminated with oil, grease, flammable solvents, or other combustible materials, fire and explosion may occur. Also, many substances and materials that do not normally burn in air, including dust, lint, and fine metal particles can ignite in the presence of oxygen. Handle oxygen equipment only in a clean area and with clean hands, gloves, and tools.

WARNING: FAILURE TO USE ONLY OXYGEN COMPATIBLE PRODUCTS, EQUIPMENT, AND MATERIALS WHEN CARRYING OUT THE PROCEDURES IN THIS SIL, CAN BRING ABOUT A VIOLENT REACTION RESULTING IN FIRE OR EXPLOSION THAT MAY CAUSE SERIOUS PERSONAL INJURY OR DEATH.

6. RECOMMENDATIONS

A. Service Life

The total service life of a Mask Assembly is six years from the date of manufacture. This includes shelf life and on-aircraft service life. After six years, replace the Mask Assembly.

B. Shelf Life

The shelf life of the Mask Assembly is recommended to be no more than three years from the date of manufacture. If stored more than three years, refer to Section 6, Paragraph E. You will decrease the on-aircraft service life of the Mask Assembly to less than three years if you keep it in storage for more than three years.

When in storage, keep the Mask Assembly in the factory package or equivalent to give protection from contamination and mechanical damage. You should keep the storage area clean and dry. Do not keep the Mask Assembly in a wet location. Do not keep the Mask Assembly near sources of heat.

Keep the storage area at a temperature and relative humidity at which a person would be comfortable. This would be a typical temperature of 50°F to 86°F (10°C to 30°C) and a typical relative humidity of 5% to 95%. The maximum storage temperature for a short period (two to three days) is 160°F (71°C). The minimum storage temperature for a short period (two to three days) is 0°F (-18°C).



6. RECOMMENDATIONS (Continued)

C. First Inspection

Do a visual inspection of the Mask Assembly when it is removed from storage and before it is installed in an aircraft. Section 10 of this SIL tells you how to do a visual inspection.

D. In-Service Inspections

Do a visual inspection of the Mask Assembly at least once every three years. Section 10 of this SIL tells you how to do a visual inspection.

E. Removal from Storage and Installation onto Aircraft

If the Mask Assembly was stored more than 3 years and passes the visual inspection described in Section 10:

Install the Mask Assembly in the aircraft. Remove the Mask Assembly from the aircraft before or at 6 years from the date of manufacture of the Mask Assembly.

7. TESTING AND FAULT ISOLATION

Not applicable.

8. DISASSEMBLY

Do not disassemble the Mask Assembly.

9. CLEANING

The rebreather bag and oxygen supply tube must not be cleaned.

CAUTION: DO NOT CLEAN THE INTERNAL OR EXTERNAL SURFACE OF THE REBREATHING BAG AND OXYGEN SUPPLY TUBE. IF YOU CLEAN THE INTERNAL OR EXTERNAL SURFACE OF THE REBREATHING BAG AND OXYGEN SUPPLY TUBE YOU MAY CAUSE DAMAGE TO THE REBREATHING BAG AND OXYGEN SUPPLY TUBE MATERIALS OVER TIME. THIS DAMAGE WILL DECREASE THE SERVICE LIFE OF THE MASK ASSEMBLY.

The rebreather bag and oxygen supply tube cannot be cleaned. Do not clean the internal or external surface of the rebreather bag and oxygen supply tube. Replace the Mask Assembly if necessary.

10. CHECK

A. Visual Inspection

Use this SIL to do a visual inspection of the Mask Assembly. If the Mask Assembly does not pass visual inspection, replace the Mask Assembly.

A visual inspection must include all of the following steps:

- (1) Check entire Mask Assembly for any apparent mechanical damage (i.e., components that are missing, torn, broken, frayed, or have holes.)
- (2) Check entire Mask Assembly for any changes in material properties, such as loss of flexibility, cracking, permanent deformation, or kinks.
- (3) Check Mask Assembly for any discoloration due to aging of any material that deteriorates over time (e.g., the tubing, rebreather bag, or the elastic headstrap assembly.)
- (4) Check to see if the tubing has a leak, a crack, or is damaged.



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10. CHECK (Continued)

- (5) Check to see if the flow indicator (if applicable) is loose, cracked, or broken.
- (6) By looking through the rebreather bag, do a visual check for liquid (droplets) or solid (dirt) contamination on the internal surface of the rebreather bag.
- (7) Do a visual check for solid (dirt) or liquid (tacky) contamination of the complete Mask Assembly including the external surface of the rebreather bag.
- (8) Make sure all the necessary parts are assembled onto the Mask Assembly.
- (9) Check headstrap for elasticity. (Headstrap must stretch when you pull it and go back to the initial size.)

11. ASSEMBLY

Not Applicable.

12. OTHER PUBLICATIONS AFFECTED

None.

13. HOW TO OBTAIN TECHNICAL AID OR PURCHASE A REPLACEMENT MASK ASSEMBLY

A. To get technical aid, contact the AVOX Technical Support Department.

- Jodi Molenda:
- Telephone: 1-716-686-1798
- Fax: 1-716-681-1089
- E-mail: avoxcs@avox.zodiac.com

B. To buy a Mask Assembly, contact any AVOX Authorized Distributor listed below, or refer to the AVOX web site (www.avoxsys.com) for a list of distributors.

IN-Services Asia
80 Chun Choi Street
Tseung Kwan O Industrial Estate
New Territories
Hong Kong, China

General Manager
Sebastien WEBER
Email: weber.inasia@haeco.com
Customer Support Administration -
Shirley Huen
Email: huen.inasia@haeco.com
Phone: (852) 2260 4050
Fax: (852) 2260 4052

IN-Services Europe
7, Avenue du Parana,
B.P. 303
91958 Courtaboeuf Cedex
France

Customer Services
Celine Robitaille
Phone: 33 1 64 86 69 19
Email: crobitaille@intertechnique.zodiac.com



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13. HOW TO OBTAIN TECHNICAL AID OR PURCHASE A REPLACEMENT MASK ASSEMBLY
(Continued)

B. To buy a Mask Assembly . . . (Continued)

AVOX-EROS Services
6734 Valjean Avenue
Van Nuys, CA 91406

Phone: 818-787-3852

Fax: 818-435-0992

Jean-Marc LeMaitre

Dir. of Marketing and Customer Relations

Pandora Taylor

Customer Services Manager

Email: ptaylor@avox-eros.zodiac.com

818-435-0911

IN-Services (Middle East)

Abu Dhabi International Airport

P.O. Box 106675

Cargo Village Area

Abu Dhabi, U.A.E.

GM and Sales Manager

Boulouafi Bouach

Phone: (971) 2 672 5257

Email: bbouach@inservices-alrumaithy.com